## WHAT IS CLAIMED IS:

- 1. A thermoplastic impact-reinforced polyamide composition comprising:
- I) from 60 to 99% by weight of the total weight of the composition of at least one polyamide (I);
- II) from 1 to 40% by weight of the total weight of the composition of at least one block copolymer (II) corresponding to the following general formula Y-B-Y' wherein:
  - B is an elastomeric block thermodynamically incompatible with the Y and Y' blocks,
- 10 Y and Y',

at least one of the two blocks Y and Y' being partially or entirely composed of poly(methyl methacrylate); and

- III) from 0 to 20% by weight of the total weight of the composition of at least one impact additive,
- the total of (II) and (III) not exceeding 50% by weight.
  - 2. The composition as claimed in claim 1, comprising:

from 70 to 98% by weight of (I)

from 2 to 30% by weight of (II).

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- 3. The composition as claimed in claim 1 wherein B comprises at least one monomer unit selected from the group consisting of butadiene, isoprene, 2,3-dimethyl-1,3-butadiene, 1,3-pentadiene or and 2-phenyl-1,3-butadiene.
- 25 4. The composition as claimed in claim 3, wherein B comprises butadiene.
  - 5. The composition of claim 1, wherein Y and Y' comprise at least one monomer unit chosen from styrene and short-chain alkyl methacrylates.
- 30 6. The composition as claimed in claim 5, wherein Y is a block composed predominantly

of styrene and wherein Y' is a block composed predominantly of methyl methacrylate syndiotactic to a level of greater than 60%.

- 7. The composition as claimed in claim 1, wherein the impact additive comprises an elasomer.
  - 8. The composition of claim 1, wherein the polyamide (l) is at least one polyamide selected from the group consisting of polyamides -4, -6, -10, -11, -12, -4,6, -6,9, -6,10, -6,12 and -12,12.

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- 9. A polyphase composite material comprising the composition of claim 1 and at least one fiber compound selected from the group consisting of glass fibers, carbon fibers, fibers derived from carbon, metal fibers, and textile fibers.
- 15 10. A polymer alloy comprising the composition of claim 1 and at least one compound selected from the group consisting of polyamides and polyolefins.
  - 11. A thermoplastic object comprising the composition of claim 1, formed by injection molding, extrusion, blowing or molding.

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- 12 14 (canceled)
- 15. The composition of claim 5, wherein Y and Y' comprise methyl methacrylate.
- 25 16. The composition as claimed in claim 7, wherein the impact additive elastomer comprises EPDM or elastomeric polyolefins..